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- 121. Lucas DR, Newhouse JP: The toxic effect of sodium ι -glutamate on the inner layers of the retina. AMA Arch Ophthalmol 1957; 58:193-204
- 122. Ames AA III, Nesbett FB: Pathophysiology of ischemic cell death—I. Time of onset of irreversible damage: Importance of the different components of the ischemic insult. Stroke 1983; 14:219-226
- 123. Parks JM, Ames A III, Nesbett FB: Protein synthesis in central nervous tissue: Studies on retina in vitro. J Neurochem 1976; 27:987-997
- 124. Verity MA, Brown WJ, Cheung M: Isolation of ribosome containing synaptosome subpopulation with active in vitro protein synthesis. J Neurosci Res 1980; 5:143-153
- 125. Verity MA, Brown WJ, Cheung M, et al: Methyl mercury inhibition of synphosome and brain slice protein synthesis: In vivo and in vitro studies. J Neurochem 1977; 29:673-679
- 126. Rothman S: Synaptic activity mediates death of hypoxic neurons. Science 1983: 220:536-537

- 127. Mitchell RH: Inositol phospholipids and cell surface receptor function. Biochem Biophys Acta 1975; 415:81-147
- 128. Downes CP: Inositol phospholipids and neurotransmitter-receptor signalling mechanisms. Trends Neurosci 1983; 6:313-316
- 129. Hanahan DJ, Nelson DR: Phospholipids as dynamic participants in biological processes. J Lipid Res 1984; 25:1528-1535
- 130. Hokin LE: Receptors and phosphoinositide-generated second messengers. Annu Rev Biochem 1985; 54:205-235 (351 refs)
- 131. Sugiyama H, Ito I, Hirono C: A new type of glutamate receptor linked to inositol phospholipid metabolism. Nature 1987; 325:531-533
- 132. Brown E, Kendall DA, Nahorski SR: Inositol phospholipid hydrolysis in rat cerebral cortical slices—I. Receptor characterisation. J Neurochem 1984; 42:1379-1387

Traveler's Diarrhea—The Rule of Ps

FORTUNATELY, TRAVELER'S DIARRHEA IS A PREVENTABLE DISEASE. I recommend what I call the Traveler's Rule of Ps, that is, one should only consume foods and beverages that are peeled, packaged, purified, or piping hot. Most of the enteric organisms that cause diarrhea, as well as polio and hepatitis and so on, occur either in tap water, ice, or fresh fruits and vegetables.

If you can peel the fresh fruit and vegetables, they're safe. So mangos, oranges, bananas, and so on, are perfectly safe, no matter where you are. Grapes or tomatoes, however, unless you're willing to peel them, are not.

Packaged food is almost always safe. There have been occasional horror stories: bottled water in Mexico causing an epidemic of diarrhea, and so on, but this is very, very rare. In fact, if something seems reliably packaged and has a seal and looks like it was commercially done, then virtually everywhere in the world, it is safe to consume.

Purified refers primarily to water; and sterilized, purified water is now available, increasingly, throughout most of the common tourist destinations in Mexico and other parts of the commonly-visited developing world.

Remember, though, that ice can carry germs, too. This is one mistake that travelers make quite commonly. Unless the ice is purified—and it is very hard to get accurate information about this—it is best to stay away from it. Just because you're in a fancy place, a fancy hotel, does not mean that the ice is purified or that the water is safe to drink.

Piping hot is probably the most important thing. By that, I mean that if you eat food that has been cooked *now* and served piping hot *this moment* and not touched by anyone else between the time when it's hot and when you eat it, it is 95% + safe. Now, that's not to say something that was well cooked and has cooled off is safe.

-ROBERT B. BARON, MD

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